

Cybersecurity expertise for the digital EUDI wallet in Germany

Easy-to-use and secure electronic identities (eID) are essential building components for accessing digital services. Starting in 2027, EUDI wallets are set to create a trustworthy, Europe-wide interoperable ecosystem for digital identities and credentials. Fraunhofer AISEC is a cybersecurity partner.

According to the amended eIDAS Regulation, which became effective in May 2024, all EU Member States must certify and provide at least one European digital identity wallet (EUDI wallet) by the end of 2026. This enables users to identify themselves via smartphone, store a variety of documents as proof of identity, authorise transactions and sign with a qualified electronic signature (QES) – without additional hardware. The online ID card is the basis for transferring personal identification data to the wallet. The wallet also supports pseudonymous authentication for all services that do not require the identification of a natural person. Non-governmental providers such as companies or research institutions will also have the option of having their own EUDI wallets recognised.

In developing the EUDI wallet, particular emphasis is being placed on acceptance and user-friendliness. The future user interfaces will be designed intuitively and all functions will be easily accessible to ensure a high level of user satisfaction and widespread adoption. Detailed input from the transparent consultation process will be used to continuously improve the wallet and guarantee a smooth user experience. By focusing on the user experience, the project is laying important foundations for broad acceptance among the general public, and thus for fully digital and efficient processes in society, business, and administration.

Focus on security

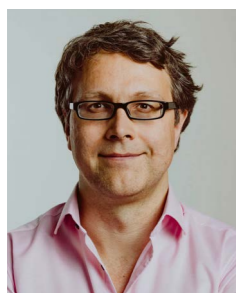
Various architectural options were described for the wallet's identification function and compared in terms of information security, privacy, usability, and scalability. After intensive testing, the architecture variant that works with the smartphones already available to citizens was selected for the implementation of the government wallet. It combines hardware security anchors in the cloud with signed data, enabling keys with the highest protection requirements to be stored in secure hardware and thus minimising the risk of transactions being observed.

Fraunhofer AISEC is a cybersecurity partner and supports the project with expertise in designing secure architectures for electronic identities, risk analysis, usable security, and privacy (cybersecurity developed with intensive user involvement from the outset) and mobile security.

The development of the government wallet is taking place in a transparent and public consultation process with all stakeholders and the general public. The rollout is to take place in stages with expanded functionality until 2027. The EUDI wallet is considered the EU's largest digital policy project, with the goal of providing at least 80 percent of EU citizens with a digital identity by 2030.

Working together for secure, user-friendly and universally applicable digital identities

To implement the amended eIDAS Regulation in Germany, the Federal Ministry of the Interior and Community (BMI) has commissioned SPRIND GmbH to develop a concept for the EUDI wallet ecosystem in Germany and the state EUDI wallet. BMI and SPRIND are implementing this project together with the Federal Office for Information Security (BSI), the Federal Printing Office, PwC and Fraunhofer AISEC.



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More Information



Press release 'EUDI wallet in Germany'



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